

**AGENDA FOR THE 1ST MEETING OF THE
WORKING GROUP ON SUSTAINABLE DEVELOPMENT OF TIDAL AREAS (WG-SDTA)**

15 August 2018: 09:00-10:30 hours (Session-I)

15 August 2018: 11:00-12:30 hours (Session-II)

Saskatoon, Saskatchewan, Canada

Strategy Theme: Basin

Presented by the Chairman

Year of Establishment: 2017

Extended the completion of the Mandate: 2023

WG-SDTA Agenda Item 1: Introduction of new Working Group

1. At the 68th International Council (IEC) meeting held at Mexico City, Mexico on 14 October 2017, Chair Dr. Ruey-Chy Kao (Chinese Taipei) presented the report based on the finalized Scoping Document for the new Working Group on Sustainable Development of Tidal Areas (WG-SDTA). The Council accepted the recommendation of the PCTA to establish a new Working Group on Sustainable Development of Tidal Area (WG-SDTA)¹ under the thematic area “Basin”. ICID vide Notification No. 1 of 2018 dated 03 January 2018 notified setting up of the WG-SDTA with the following new mandate and invited National Committees to nominate suitable experts/professionals for the new WG:

New Mandate of the WG:

- (a) To understand the existing and potential challenges and opportunities of tidal areas for now and the future by figuring out underlying issues;
- (b) To raise awareness of the increasing risk on tidal areas due to global climate change and stimulate interdisciplinary discussions on impacts, mitigation, and adaptation
- (c) To enhance survey, design techniques, and monitoring and management programs for the irrigation and drainage facilities, and apply to collect information about the tidal area environment around the world;
- (d) To identify sustainable development and management options in tidal areas, and find a balance between the conservation and development of tidal areas with acknowledgement of ecosystem services;
- (e) To join the international dialogues and organize international conferences and short courses to promote interdisciplinary and participatory land and water planning and management in tidal areas;
- (f) To collaborate with other related working groups actively, and to exchange relevant experiences amongst NCs and support for developing, and least developed countries.

2. Egyptian National Committee on Irrigation and Drainage (ENCID) and Japanese National Committee on Irrigation and Drainage (JNC-ICID) have nominated Eng. Elaraby Mohamed Gomaa Elkashawy & Prof. Dr. Hossam Refaat (Egypt) and Dr. Ikuo Yoshinaga (Japan) for the membership of the WG. The existing membership of the WG (as continued from earlier WG) is given at **Annex 1** (see *the electronic version for the latest list*). Any new nominations, if any, for the membership received will be dealt suitably after the meeting.

SUPP: Prof. Budi Sasntoso Wignyosukarto (Indonesia), member of the WG, vide e-mail of 12 July 2018 informed that he will not attend the WG meeting at Saskatoon, Canada due to busy schedule for preparing to host an International Conference of APD IAHR in early September 2018.

SUPP: Vide e-mail of 27 July 2018 Dr. Ikuo Yoshinaga (Japan) informed that he will attend the WG meeting in August 2018 at Saskatoon, Canada.

WG-SDTA Agenda Item 1.1: A brief report of Online/WebEx Meeting of the Group, 29 January 2018

3. With the initiative of WG Chair Dr. Ruey-Chy Kao, the group organised its First Virtual / WebEx meeting on 29 January 2018 wherein eight members participated and reviewed the actions taken on the decisions of the WG. The Chair Dr. Kao briefly summarized the various activities of the group since the Mexico meeting in October 2017. The members discussed the Action Plan 2030 in general, International Workshops (2019 & 2020), Short-Course /

¹ IEC Resolution 2/68: Organizational and Technical Matters of ICID [sr. no. 2]

Training Workshop on SDTA titled “Prepare Tidal Prediction & Typhoon Wave Model” in 2019 and 2020 & 2021, Special Issue of ICID to be published in 2021 based on the past internal and international workshops of the WG and identification of person for MTD. The issue of ‘*Ground Water and the Land Subsidence on the Coastal Areas*’ is to be raised during the Canada (2018) meeting for discussion. The issue of organizing a ‘Side Event’ on ‘*Integrated Development of Tidal Areas*’ during WIF3 at Bali, Indonesia was also discussed and is to be firmed up during this meeting.

4. During the WebEx meeting, the Chair shared the experiences from Taiwan (**Goal B**: Be a catalyst for change in policies and practices (1.1 Promoting sophisticated water-saving irrigation development with IOT and water-saving irrigation model techniques of Action Plan 2030) and will make a presentation on the subject during the Canada meeting. Further, Chair proposed to organise a Short Course / Training Workshop on SDTA titled “*Prepare Tidal Prediction & Typhoon Wave Model*” (**Goal E**: Encourage research and support development of tools to extend innovation into field practices and **Goal F**: Facilitate capacity development) in 2019, 2021 & 2022 following the Action Plan 2030. A Special Issue of ICID Journal on SDTA will also be published during the year 2021 under **Goal C**: Facilitate exchange of information, knowledge and technology. Chair may provide further updates at the meeting.

WG-SDTA Agenda Item 2: ICID Action Plan 2030: Activities on Sustainable Development of Tidal Areas

5. At Mexico meeting (2017), the WG finalised the Action Plan 2030 (Road Map to ICID Vision 2030) of the WG-SDTA based on the new mandate by updating the activities on Sustainable Development of Tidal Areas (refer **Annex 2**). In this regard, brief update on actions initiated on these are referred to item 1.1 above for further deliberation during the Canada meeting. During the Mexico meeting, the 68th International Executive Council (IEC) encouraged WGs to monitor the progress of ‘Activities identified under Various Strategies for Action Plan 2017-21’ appended to ‘A Road Map to ICID Vision 2030’ and report to their respective Permanent Committees. Members will discuss mechanism to monitor the progress of identified activities under action plan.

WG-SDTA Agenda Item 3: Publications of the Working Group: A Special Issue of ICID Journal on SDTA

6. The WG has been planning to publish a Special Issue of ICID Journal titled “*Sustainable Development of Tidal Areas: Climate Change and Environmental Impacts*” in 2018 for quite some time. The papers received (**Annex 3**) have been now finalised and editorial process complete and will be published as the Special Issue of ICID Journal on SDTA, shortly. The Chairman likes to thank the Guest Editor Dr. Hsiao-Wen Wang from Chinese Taipei and Dr. Henk P. Ritzema (The Netherlands) and the reviewers for their work, as well as the Japanese, Korean and Chinese Taipei Committees for their support.

7. In a new development, WG Chair indicated in the WebEx of the WG-SDTA meeting held in January 2018 that the group would further like to publish another Special Issue of ICID journal in 2021 based on the proceedings of the internal (2018) and international workshops (2019) that will be held by then. The Chair may apprise the members on the current status of publishing the Special Issues.

WG-SDTA Agenda Item 4: Upcoming WG Events

WG-SDTA Agenda Item 4.1: Side Event on ‘Integrated Development of Tidal Areas’ (2019)

8. During the WebEx meeting of the group held in January 2018, it was proposed that the group would organise a Side Event on ‘*Integrated Development of Tidal Areas*’ during the 3rd World Irrigation Forum (WIF3) at Bali, Indonesia in 2019. In this regard, WG Chair will follow the mandate of the group and collaborate with other working groups to work out the partnerships on common related issues e.g floods and its impacts or environment and impact on it. A 2-page concept note has to be developed and activities planned for a 3 hour Side Event. The Chair may apprise the members on further updates during the meeting.

WG-SDTA Agenda Item 4.2: Internal (2018) / International Workshop (2019), if any

9. This year, the Working Group on Sustainable Development of Tidal Areas (WG-SDTA) is planning to organise an Internal Workshop during 69th IEC meetings on 15 August 2018. The main theme of the workshop is ‘*Challenges and opportunities for the Sustainable Development of Tidal Areas*’ and sub-themes are : (i) Survey, design techniques, and monitoring and management programs for the irrigation and drainage facilities in tidal areas; (ii) Creating awareness among stakeholders about the increasing risks in the tidal areas and stimulating interdisciplinary aspects of impacts, mitigation, and adaption; (iii) Interdisciplinary and participatory land and water planning and management in tidal areas. The announcement of this workshop has been circulated to the members of the WG and their active participation has been requested. The Chairman may apprise the WG members.

10. During the WebEx meeting of the Group, the Chairman proposed to organise an International Workshop during the 3rd World Irrigation Forum (WIF-3) at Bali, Indonesia in 2019. Chair may provide a brief update on the organization of the workshop at the meeting.

WG-SDTA Agenda Item 4.3: Short Course / Training Workshop on SDTA (2019)

11. The Chair Dr. Kao proposed a Short Course / Training Workshop on SDTA to be organised in November or December, 2019 in Taiwan after WIF3 as part of the Action Plan 2030 of the WG under **Goal F: Facility capacity development (Activity 3.7 Short Course/Training Workshop on Sustainable Development of Tidal Areas)**. Further, Chair has developed a new activity “*Prepare Tidal Prediction & Typhoon Wave Model*” which happens to be the topic for the Short Course on SDTA in 2019. Chair may apprise the members during the meeting.

WG-SDTA Agenda Item 4.4: Web-based seminars and e-Discussions (2019)

12. During Mexico meeting (2017), the group discussed and supported the organization of webinar/web-based seminar to promote sharing of vast expertise available with the members of the WG. In this regard, the Chair requested the members from China, Japan, Korea and Chinese Taipei to take lead and come forward to deliver the webinar on the topics emerging from the mandate of the WG. Accordingly, the ICID CO has followed-up with the members and requested them to suggest topics for organization of webinars. Chair will provide further updates at the meeting.

WG-SDTA Agenda Item 5: Ground Water and the Land Subsidence on the Coastal Areas

13. During the WebEx meeting of the WG held in January 2018, the Chair proposed a new item i.e. ‘*Ground Water and the Land Subsidence on the Coastal Areas*’ which will be discussed during the meeting at Canada. Issues such as the integration of upstream drainage and drainage tail, flood, ground water and land subsidence problems on coastal areas, analyse the potential problems and set up ways for prevention, and information dissemination among members’ countries etc. could be discussed during the meeting. The Chair may apprise the members at the meeting.

WG-SDTA Agenda Item 6: Dissemination of activities of WG

14. During Mexico meeting (2017), the group noted that the website of the WG <http://wg-sdta.icidonline.org> was updated with new membership list, agenda, minutes, paper presentations, publications etc. WG Chair requested the members of the WG especially from China, Japan, Korea and Chinese Taipei to share information, knowledge & experiences and provide papers, presentations, articles, reports etc. related to scope of the WG to ICID CO for uploading on the WG website for wider dissemination and knowledge enrichment. To start with, the Chair requested the members to provide at least one page of materials/articles/papers/presentations/reports to THL, NCKU at SDTA-THL@thl.ncku.edu.tw for review. Accordingly, the ICID CO has followed-up with the members and requested to provide the materials (papers, articles and documents) related to the mandate of the group. WG members will deliberate on evolving mechanism for sharing of information on regular basis.

WG-SDTA Agenda Item 7: Updating Multilingual Technical Dictionary (MTD)

15. During the Mexico meeting (2017), the group noted that Prof. Hajime Tanji (Japan) could not provide his services due to his illness. In this regard, WG Chair requested the members to undertake of MTD terms related to scope and mandate of the WG. Accordingly, the ICID Central Office has followed-up with the members to review the terms of MTD related to the mandate of the WG and submit their inputs to the Chair Dr. Kao. The JNC-ICID has since nominated Dr. Ikuo Yoshinaga (Japan) to continue the work of Prof. Hajime Tanji. The Chair will provide further updates at the meeting-

WG-SDTA Agenda Item 8: Cooperation between Institutions from Taiwan and Korea

16. At Mexico meeting (2017), the group noted that Memorandum of Understanding (MoU) has been signed between the two organisations i.e. the Rural Research Institute (RRI) of Korea Rural Community Corporation (KRC), Republic of Korea and Tainan Hydraulic Laboratory (THL), National Cheng Kung University (NCKU) for future cooperation on issues of mutual interest in the area of SDTA. The Chairman has communicated (31 May 2018) that RRI-THL organised a Joint Seminar on 21-22 March 2018 at THL, NCKU which focused on issues of coastal erosion, tidal areas, renewable energy, and water resources disaster prevention. Chair may brief the members on the seminar.

WG-SDTA Agenda Item 9: Any other business

SUPP: Vide email of 6 July 2018 Dr. Ruey-Chy Kao, Chairman of the WG informed that he has received the message from Dr. Jeongryeol Jang (Korea), member of the WG regarding International Conference being hosted by the Rural Research Institute (RRI) on 22nd November 2018 at Ansan City, Korea. Dr. Jeongryeol Jang will provide the latest updates of the Conference at the WG meeting.



NOTES FOR CHAIRPERSON:

1. Draft minutes of this meeting to be submitted to ICID Secretariat at Saskatoon, Canada after the meeting.
2. Chair to participate and present the WG report to PCTA meeting on 16 August 2018.

A. Members and their attendance at 2017 meeting

Sl. No.	Members	Member from (Year)	2017		2018	Remarks
			Self	Contributed by mail	Participants in the 1 st Virtual Meeting	
1.	Dr. Ruey-Chy Kao (Chinese Taipei), Chairman	2017	•		•	
2.	Ir. Henk P. Ritzema (Netherlands), Vice-Chair	2017		# ¹	•	
3.	Dr. Hajime Tanji (Japan), Secretary	2017		#		
4.	Dr. (Ms) Hsiao-Weng Wang (Chinese Taipei)	2017		#		Young Professional
5.	Prof. Budi Santoso Wignyosukarto (Indonesia)	2017			•	
6.	Prof. Zhang Zhanyu (China)	2017		#	•	
7.	Ir. Hj. Nor Hisham bin Mohd Ghazali (Malaysia)	2017	•		•	
8.	Dr. Jeongryeol Jang (Korea)	2017	•		•	Please confirm Dr. Jang's status as a Young Professional
9.	Mr. Anuj Kanwal (India)	2017				
10.	Mr. Paavan Kumar Reddy (India)	2017	•		•	Young Professional
11.	Secretary General, ICID			•		
12.	Dr. Jo Jin Hoon					Permanent Observer
13.	Dr. Daeou Eo					Permanent Observer
14.	Mr. Robiyanto Hendro Susanto (Indonesia)					Permanent Observer
15.	Mr. Harry Denecke (FAO)					Permanent Observer

B. New Nominations received from the National Committees

Sl. No.	Name	Country	Remarks
1.	Dr. Ikuo Yoshinaga	Japan	Recommended as member, subject to his presence else provisional member
2	Eng. Elaraby Mohamed Gomaa Elkashawy	Egypt	Recommended as member, subject to his presence else provisional member
3	Prof. Dr. Hossam Refaat	Egypt	Recommended as member, subject to his presence else provisional member

¹ Through representation



ROAD MAP TO ICID VISION 2030 – ACTIVITIES OF WG-SDTA

	Activity	Outcomes/ Outputs	Milestone for Year 2017	Milestone for Year 2018	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021	Milestone for Year 2022
Goal B: Be a catalyst for change in policies and practices								
Strategy B1 : Supporting Development of Appropriate Policies	1.1 Promoting Sophisticated water-saving irrigation development with IOT and water-saving irrigation model techniques exchanges	Technical report, workshop proceedings and water industry web site	Preparing: Promoting demonstrative plan	Site tests demonstration: Hardware construction and software tests	Site tests demonstration: Hardware, software and system control integrating process	Site tests plan: Workshop observation	Examination Plan results & improvement	Examination Plan results & improvement
	1.2 Promoting up-to-date water-saving experience exchange	As above	As above	As above	As above	As above	As above	As above
	1.10 Sustainable drainage management experience exchange	Internet of Things Water industry workshop						
Goal C: Facilitate exchange of information, knowledge and technology								
Strategy C4 : Compile, Collate and Share Knowledge and Experiences	4.26 Special Issue of ICID Journal on SDTA	Special issue of IRD	Announcement of special issue, inviting authors etc.	Setup Review Committee for selected papers based on the workshops	Submission of final drafts		Publishing Special Issue of IRD	
Strategy C5 : Dissemination of Data, Information, Tools, Knowledge and Know How	5.8 Develop and maintain the ICID web site as a knowledge hub	On-line						
Goal E: Encourage research and support development of tools to extend innovation into field practices								
Strategy E3 : Develop and Promoting Tools for AWM	3.2 The application for output of development tools from academic institutions			Prepare tidal prediction and typhoon wave model				
Goal F: Facilitate capacity development								
Strategy F3: Technical Training of Young Professionals from Member Countries	3.7 worksh/Training Workshop on Sustainable Development of Tidal Areas	Technical transfer and internet information short course /training workshop	Scope, theme and announcement		Short Course/Training Workshop on SDTA		Short Course / Training Workshop on SDTA	Short Course / Training Workshop on SDTA
	3.8 To launch e-Discussion on Sustainable Development	E-discussion	E-discussion on Sustainable Development of Tidal Areas		e-Discussion on SDTA		e-Discussion on SDTA	

(Source: Consultative Group (CG) Report: A Water Secure World Free of Poverty & Hunger: A Road Map to ICID Vision 2030)

**List of Papers for Special Issue of ICID Journal on
Sustainable Development of Tidal Areas: Climate Change and Environmental Impacts**

Sl. No	Title	Authors
1	Editorial	Ruey-Chy Kao, Hsiao-Wen Wang, Henk P. Ritzema
2	Impacts of Man-Induced Changes in Land Use and Climate Change on the Sustainable Development of Coastal and Deltaic Areas	Bart Schultz
3	Reconstruction of the history of the Byeokgolje Dam constructed in the tidal lowlands in Korea	Park, Sang-Hyun, Kim, Ju-Chang, Choi, Kang-Won, Lee, Kwang-Ya, Um, Myung Chul, An, JUNG SIC
4	Assessment of land subsidence and climate change impacts on inundation hazard in southwestern Taiwan	Hsiao-Wen Wang, Cheng-Wei Lin, Chun-Yao Yang, Chung-Feng Din, Hwung-Hweng Hwung, Shih-Chun Hsiao
5	Assessment of the groundwater salinity used for irrigation and risks of soil degradation in Souss-Massa, Morocco	Kaoutar El Oumlouk, Rachid Moussadek, Ahmed Douaik, Hamza Iaaich, Houria Dakak, Mohamed Taoufiq Chat, Ahmed Ghanimi, Azzedine El Midaoui, Mahacine El Amrani, Abdelmjid Zouahri
6	Coping with climate change in a densely populated delta: a Paradigm shift in flood and water management in the Netherlands	Ritzema, H.P., Van Loon-Steensma, J.M.
7	Analysis of river flow regime changes related to water availability on Kapuas river, Indonesia	Henny Herawati, Suripin Suharyanto, Tia Hetwisar
8	Mini polders, as an alternative of flood management in the lower Bengawan Solo River	H.G. Mawandha, B.S. Wignyosukarto, R. Jayadi
9	Barriers to implement irrigation and drainage policies in An Giang Province, Mekong Delta, Vietnam	Tran, Dung, Weger, Jacob
10	Key factors in handling conflicts in the Isahaya Bay landreclamation project, Japan: a case study focusing on social aspects	Shinsuke Ota
11	Simulation of farmland water table depth and soil salinity under drainage systems in Tidal Areas, Laizhou bay of China	Genxiang Feng, Zhanyu Zhang, Peirong Lu, Ahmad Bakour
12	Impact of Sea Level Rise and Tsunami on Coastal Areas of Northwest Peninsular Malaysia	Ghazali, Nor Hisham, Awang, Nor Aslinda, Mahmud, Mahran, Mokhtar, Arman
13	Water Management to Enhance Ecosystem Services in a Coastal Wetland in Taiwan	Pin-Han Kuo, Hsiao-Wen Wang

